

CLINODIGIT OMEGA

Multifunctional DR + DRF System with
Dynamic Flat Panel Detector



CLINODIGIT OMEGA

CLINODIGIT OMEGA is a revolutionary system that allows to perform ALL TYPES of DIGITAL RADIOGRAPHY and DIGITAL RADIO-FLUOROSCOPY EXAMS with one single compact unit.

CLINODIGIT OMEGA is equipped with a latest-generation 43x43 cm (17"x17") DYNAMIC FLAT PANEL DETECTOR, thus ensuring exceptional image quality, unsurpassed productivity, and minimal patient dose.

CLINODIGIT OMEGA, thanks to its innovations, dramatically enhances departmental productivity and efficiency, while providing maximum comfort and safety for both patients and operators.

CLINODIGIT OMEGA is a:

DIGITAL FLUOROSCOPY SYSTEM
DIGITAL RADIOGRAPHY SYSTEM
DIGITAL CHEST SYSTEM
DIGITAL EMERGENCY ROOM SYSTEM

IMAGE QUALITY

- everest-X
- DYNAMIC FLAT PANEL DETECTOR
- HIGH DYNAMIC RANGE

DOSE REDUCTION

- HIGH DQE
- ANATOMICAL PROGRAMS WITH PAEDIATRIC APPLICATIONS
- DOSE MONITORING

CONNECTIVITY

- FULL DICOM PACKAGE
- REMOTE ASSISTANCE

ACCESSORIES



One system
All examinations
No compromises

FLUOROSCOPY

Improve efficiency
Maximize patient comfort

ALL FLUOROSCOPY APPLICATIONS are available with CLINODIGIT OMEGA from standard positioning and scouting to Gastrointestinal, Urological/Gynaecological, Musculoskeletal, Swallowing, ERCP Procedures, Myelography, Interventional Procedures, Lymphography, and Paediatrics. A remote-controlled compression cone, removable if necessary, is available as option for

examinations on the digestive system. Thanks to the innovative 43x43 cm (17"x17") DYNAMIC FLAT PANEL DETECTOR, many fluoroscopy image formats are available according to the specific procedure, with the flexibility of adjusting from lower frame rates (for dose reduction) up to full-performance Pulsed Fluoroscopy 30 frames per second, for very demanding applications.



IMAGE QUALITY is always exceptional in terms of both resolution and contrast, with predefined and optimized acquisition parameters.

EXAM SPEED is also dramatically increased by the possibility of instantaneously switching from fluoroscopy to radiography, with no need for time consuming cassette or CR plate handling.

FULL +90°/-90° TILTING FOR CONTRAST STUDIES



CLINODIGIT OMEGA is characterized by a TOTAL PATIENT ACCESSIBILITY, thanks to its extra-low tabletop height and full +90°/-90° remote controlled tilting

Furthermore, thanks to the extremely long imaging chain movement, FULL HEAD-TO-TOE SCANNING can be performed with no need for potentially risky/uncomfortable patient movement



RADIOGRAPHY

Full-electronic tomography

Thanks to its TTT Tilting-Table-Top movement, CLINODIGIT OMEGA can flawlessly perform ALL RADIOGRAPHY EXAMS without any limitation due to the tabletop presence. This allows to reduce the patient-detector distance and permits patient positioning with no

impediments for perfect projections. Skull, Abdomen, Spine, Pelvis, Extremities (also weight-bearing), there is no projections that cannot be performed.



TTT (Tilting-Table-Top) Movement

Diagnostic images are available for review FEW SECONDS AFTER EXPOSURE, thus significantly enhancing department productivity. All system parameters are automatically set according to the exam type, with special programs for paediatric applications.



Exams with minimal patient-detector distance



CLINODIGIT OMEGA has been designed to perform exceptional CHEST EXAMS. It is now possible to perform chest examinations with minimal patient-detector distance and with the patient in the correct position. Not possible with traditional remote controlled tilting tables,

it is now possible with CLINODIGIT OMEGA. Moreover, CLINODIGIT OMEGA features a best-in-class 200 cm (79") focal distance, which allows to eliminate any geometric distortion in the chest image, hence further improving the already outstanding image quality.



VERTICAL POSITION WITH TTT MOVEMENT AND 200 CM (79") FOCAL DISTANCE



Enhance
versatility

CLINODIGIT OMEGA is the ideal system for Emergency applications. Thanks to the TTT Movement, all radiography and fluoroscopy exams can be performed, flawlessly and with maximum speed, directly on the mobile table and without any need for moving the patient from the mobile table to the system tabletop, (a very risky procedure with heavily traumatized patients!). Time cannot be wasted

in the Emergency Department and with the innovative dynamic flat panel detector, all static and dynamic X-ray images are immediately available for review thus allowing for instantaneous diagnosis.

LATERAL PROJECTION ON MOBILE TABLE FOR TRAUMA PATIENT



HORIZONTAL POSITION WITH TTT MOVEMENT: RADIOGRAPHY AND FLUOROSCOPY DIRECTLY ON MOBILE TABLE FOR TRAUMA PATIENT



High
automation



IMAGE QUALITY

everest-X

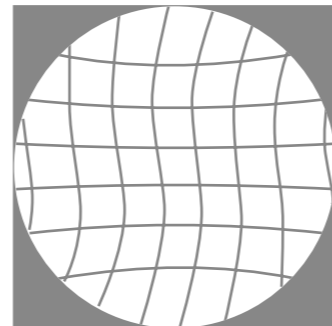
CLINODIGIT OMEGA is based on a dynamic flat panel detector featuring amorphous Silicon (a-Si) technology and a Caesium Iodide (CsI) scintillator with an extremely high DQE. Images are acquired with a pixel pitch of 148 μm thus producing brilliant images with extremely sharp

resolution. 16 bits greyscale acquisition depth guarantees an incredible greyscale dynamic range, where even the most subtle details and the most diverse structures can be effectively identified, with image retakes practically eliminated.



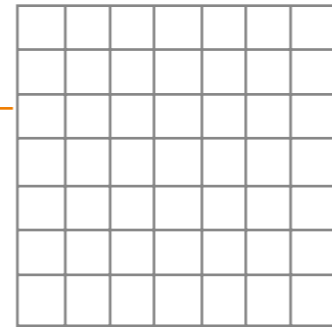
Comparison with a 12" I.I.

With a 43x43 cm detector, the largest size available on the market today, all anatomical districts can be imaged, even in presence of tall/corpulent patients. The imaging area is almost 50% larger when compared with 16" Image Intensifiers.



The Flat Panel Detector removes the distortion problem typical of systems with Image Intensifier

Comparison with a 16" I.I.



Effortless diagnosis

IMAGE LATITUDE ENHANCEMENT WITH everest-X

Digital Images, thanks to their very wide dynamic range, contain detailed information in both high attenuation image areas (shoulders, abdomen) and low attenuation image areas (lungs, cavities). CLINODIGIT OMEGA is equipped with the innovative everest-X real time

image processing engine, which makes it possible to automatically expand the latitude of a single image and see all the relevant clinical details at the same time and without time-consuming Window/Level adjustments.

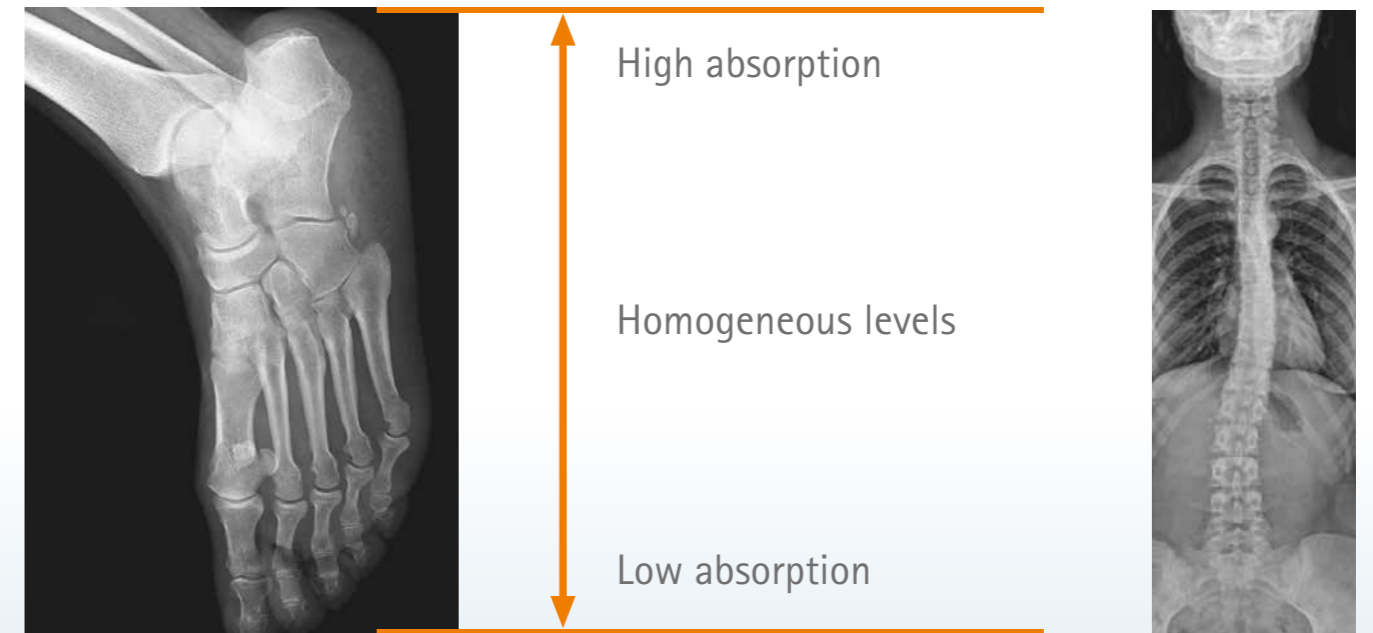


Image Stitching*

For Full-Spine and Full-Leg images, adjacent images are automatically acquired and stitched together in just one single image, with maximum patient comfort and optimal image quality. Risk of artifacts caused by patient movement are strongly minimized for very short exposure times.

powered by
everest-X
image processing

*Optional



REMOVABLE GRID

One of the main targets of ITALRAY systems is to follow the ALARA dose management philosophy (As Low As Reasonably Achievable). The flat panel detector high dynamic range and DQE (Detective Quantum Efficiency) assure detailed and clear images with significant dose reduction compared to traditional image receptors. Furthermore, patients are subjected to a reduced number of expositions (retakes are virtually eliminated) and consequently to a lower average X-ray dose. Automatic collimation and filters, with multiple exam-specific software packages, also contribute to dose reduction. Anti-scatter grid can also be removed for extremities or paediatric exams.



TOUCH-SCREEN MULTIFUNCTIONAL CONSOLE

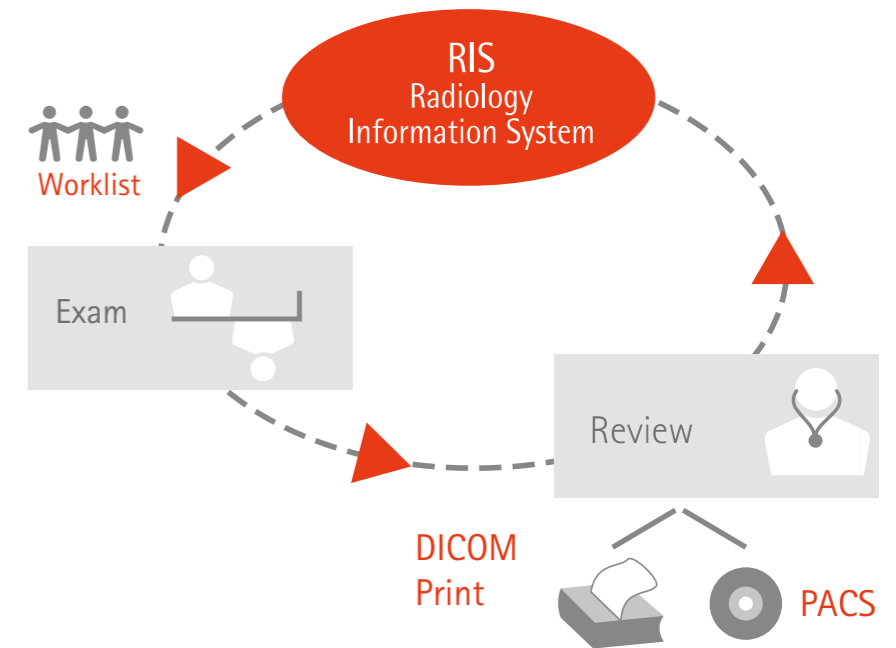
CLINODIGIT OMEGA is a totally automated and remote controlled system. The All-In-One control console featuring a large touch screen interface and predefined system working positions guarantees an unmatched ease of use. Operators can perform the entire examination from the control room hence eliminating any risk of X-ray exposure.

Improve patient care

Offer continuous customer assistance

DICOM

CLINODIGIT OMEGA is 100% DICOM 3.0 compliant and can be seamlessly interfaced with any third party RIS and PACS system or DICOM printer. The daily worklist is automatically downloaded from the Hospital Radiology Information System; when the patient enters the exam room, all parameters are already set for the specific exam. Once the imaging session is completed, the study is available in DICOM standard.



REMOTE ASSISTANCE



CLINODIGIT OMEGA is equipped with a Remote Assistance Service* and can be remotely monitored through a simple Internet connection. The Remote Assistance Service is mainly used for service troubleshooting, installing software upgrades and optimizing system settings in order to guarantee the best image quality with the lowest dose. The Remote Assistance Service reduces maintenance costs while increasing reliability, with many advantages for the end user.

*Subordinate upon the technical/policy characteristics of the local Hospital network

ACCESSORIES

REMOTE CONTROLLED CONIC COMPRESSOR*



SHOULDERS SUPPORT



LEG SUPPORTS*



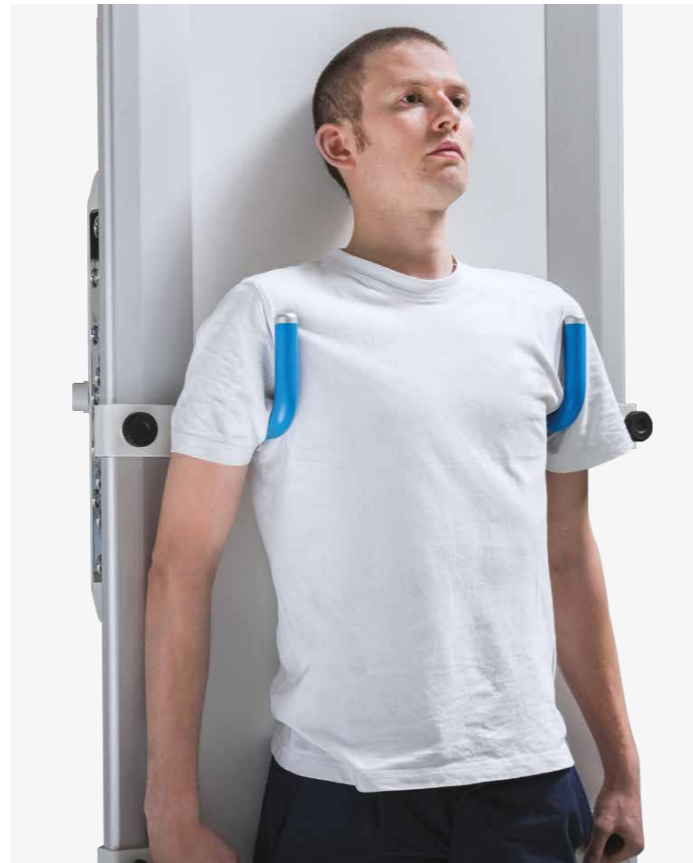
REMOVABLE PATIENT FOOTREST



SPECIAL TOOL FOR WEIGHT-BEARING FEET/LOWER LIMBS EXAMS*



PATIENT HANDGRIPS AND ARMPIT SUPPORTS*



COMPRESSION BAND*



*Optional

ABOUT ITALRAY

ITALRAY was founded in 1974 with the goal of manufacturing high-quality Medical X-ray Systems, 100% made in Italy.

ITALRAY's core business is Medical Imaging with a special focus on Digital X-ray Imaging.

ITALRAY activities range from product development to manufacturing, commercialization, installation, and service: we take care of our products throughout their entire lifecycle.



Made in Italy

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